CLAIMS

1.   An optical element comprising a molded body containing a resin having an alicyclic structure, said molded body having a hologram surface diffusion pattern formed on at least one surface thereof.

2.   The optical element according to claim 1 wherein the hologram surface diffusion pattern is composed of a fine asperity, an arithmetic average roughness Ra of the asperity is 0.5 to 10 μm, and a ratio of the arithmetic average roughness Ra to a mean spacing Sm (Ra/Sm) of the asperity is 0.01 to 0.9.

3.   The optical element according to claim 1 or 2 wherein the optical element has a single layer structure.

4.   The optical element according to any one of claims 1 to 3 wherein the optical element is a light diffusion plate or a light diffusion sheet.

5.   The optical element according to any one of claims 1 to 4 wherein said surface has a rectangular planar shape and a length of its diagonal is 200 mm or more.

6   The optical element according to any one of claims 1 to 5 wherein said element is obtained by injection molding.

7.   A display device comprising the optical element according to any one of claims 1 to 6.

8.   A method for producing the optical element according to any one of claims 1 to 6 comprising:

a step of preparing a stamper having a fine asperity formed on its surface, wherein an arithmetic average roughness Ra of the asperity is 0.5 to 10 µm, and a ratio of the arithmetic average roughness Ra to a mean spacing Sm

5   (Ra/Sm) of the asperity is 0.01 to 0.9,

a step of providing with a mould where said stamper has been incorporated, and

a step of injection-molding a resin having an alicyclic structure using said mould, to obtain a molded

10   body wherein said fine asperity on the surface of said stamper is transcribed on a surface of said molded body.

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